

Amendments to the Drawings:

The attached drawing pages include the following:

Replacement Sheets

Annotated Marked-up Drawings.

Remarks:

Applicant has carefully studied the Office Action attached to the Notice of Allowance mailed 10/20/2005, having a non-extendable statutory period for response set to expire 01/20/2006. The amendment appearing above and these explanatory remarks are believed to be fully responsive thereto. Accordingly, this important patent application is now believed to be in condition for issuance.

Applicant responds to the outstanding Office Action by centered headings and numbered paragraphs that correspond to the centered headings and numbered paragraphs employed by the Office, to ensure full response on the merits to each finding of the Office.

Priority

1. Applicant thanks the Office for acknowledging receipt of the papers submitted under 35 U.S.C. 119(a)-(d).

Drawings

The drawings stand objected to under 37 CFR 1.83(a) because the primary winding having a conductor with a cross-sectional area greater than a cross-sectional area of the conductor of the additional winding, as claimed, is not expressly illustrated in the drawings. This objection is met by changing the numbering of Fig. 8 to Fig. 8A and adding a new Fig. 8B that depicts the primary winding in cross section and the secondary winding in cross section. The new drawings are submitted as replacement sheets. Paragraphs [0022] and [0052] of the specification are also amended to reflect the new Figure.

Allowable Subject Matter

Applicant acknowledges that claims 42-45, 47-70, and 72-75 are allowed.

Reason for Allowability

Comments on Statement of Reasons for Allowance

Applicant thanks the Office for stating its primary reason for allowance of said claims. However, Applicant does not claim that the recited differences in cross sectional areas of the main and additional windings necessarily result in eliminating the limited efficiency by the saturation level of the wire size that is used for the electric motor construction. The recited differences in cross sectional area of said windings is a critical part of the invention but the scientific basis as summarized by the Office (eliminating limited efficiency by the saturation

level of the wire size) may not be solely a function of saturation level of the wire size. Applicant otherwise concurs in the Office's summary of the primary features of the invention.

Conclusion

If the patent cannot be issued at this time for any reason, a telephone call to the undersigned at (727) 507-8558 is requested. Applicant thanks the Office for its careful examination of this pioneering patent application.

Very respectfully,

SMITH & HOPEN

By: 

Dated: January 17, 2006

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CERTIFICATE OF MAILING
(37 C.F.R. 1.10)

I HEREBY CERTIFY that this Rule 312 Amendment, including Introductory Comments, Amendments to the Specification, Amendments to the Drawings, and Remarks is being deposited with the United States Postal Service by express mail label EV770342108US addressed to Mail Stop ISSUE FEE, Hon. Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on January 17, 2006.

Dated: January 17, 2006


April Turley



Application Serial No. 10/602,966
Amendment dated January 17, 2006
Reply to Office Action dated October 20, 2005
Annotated Marked-up Drawing

FIGURE 1
(Prior Art)

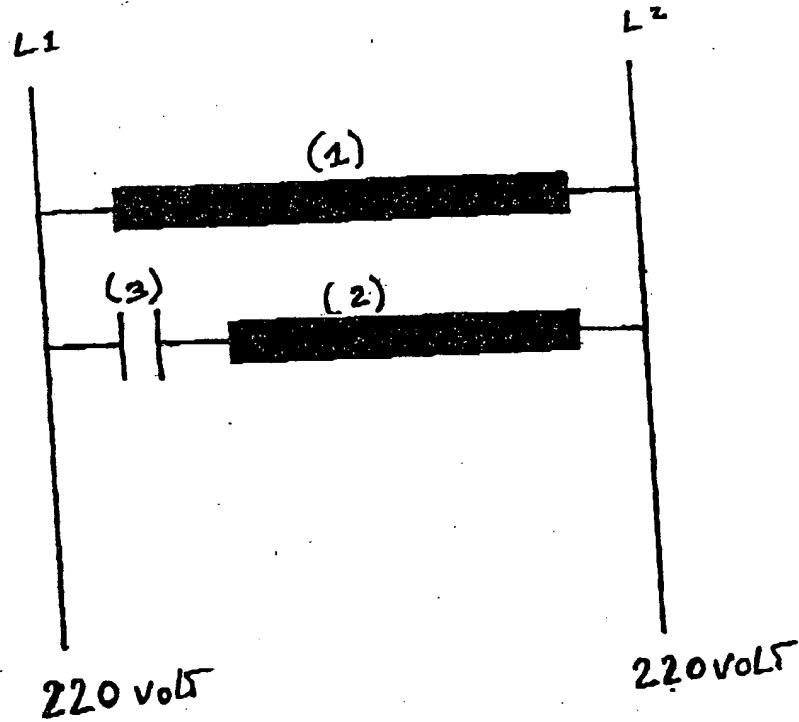


FIGURE 2
(Prior Art)

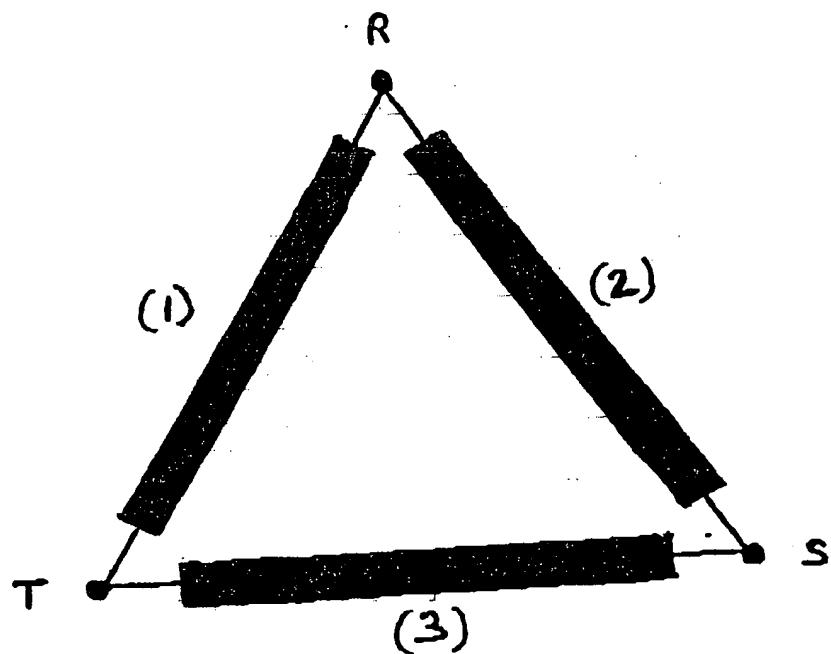
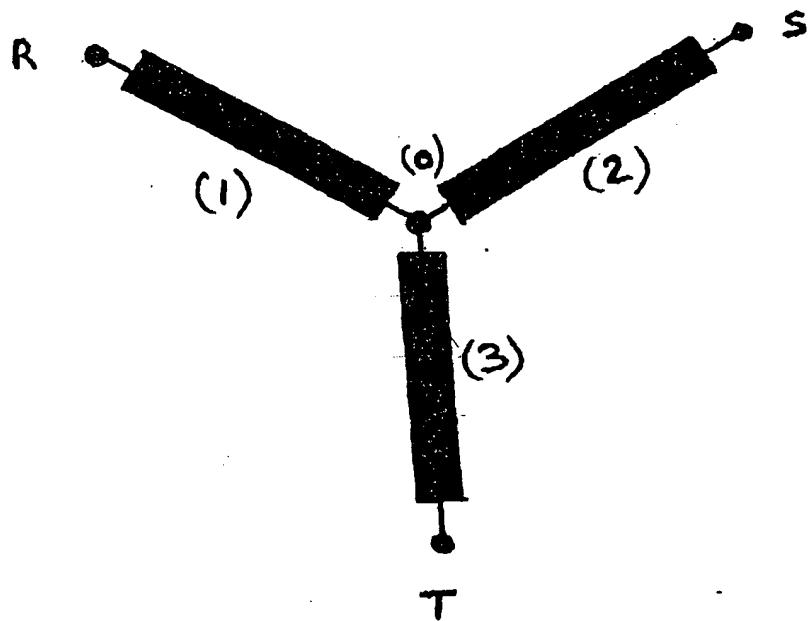
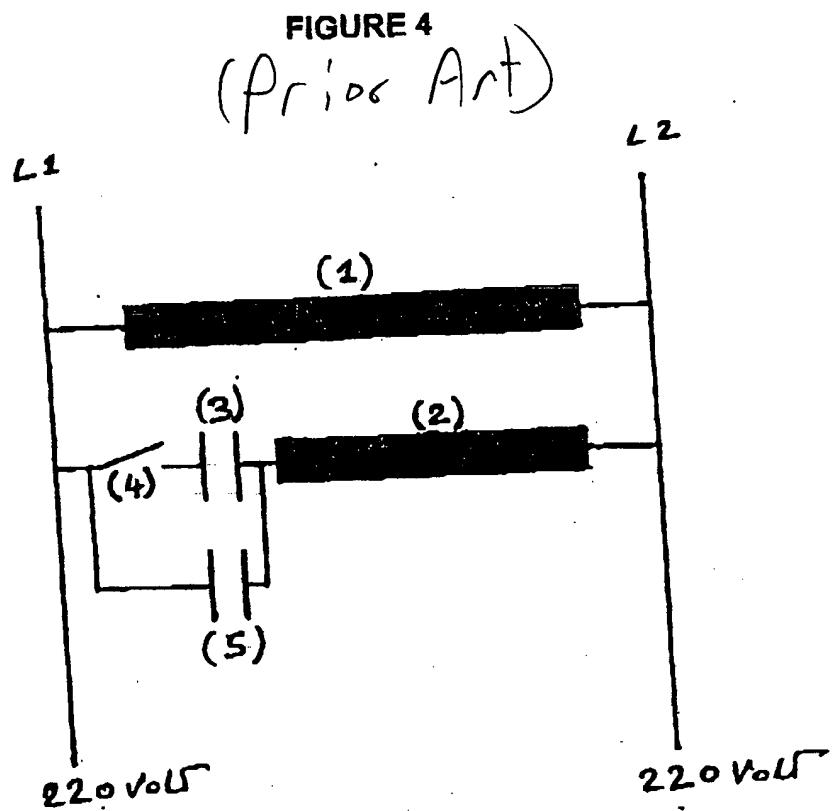


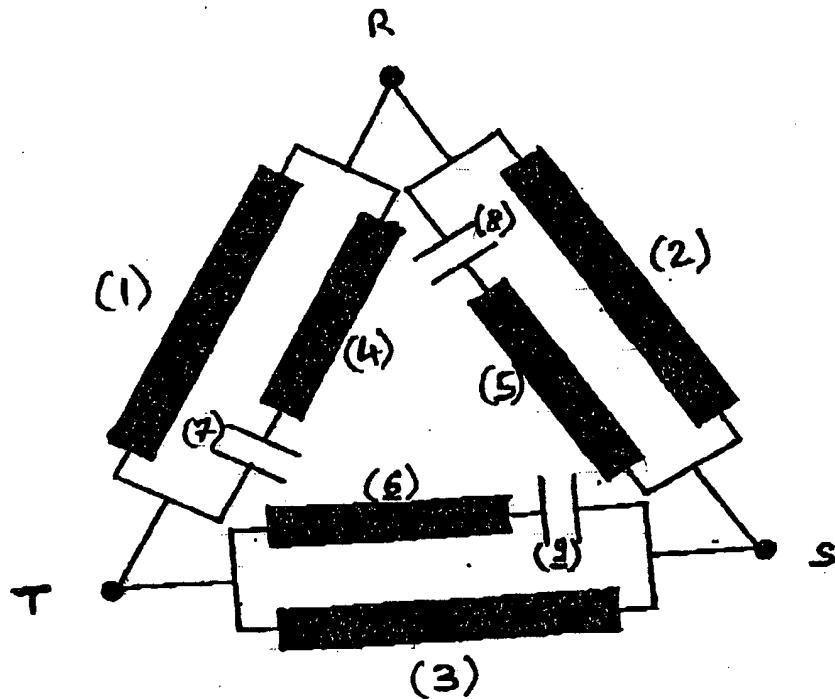
FIGURE 3
(Prior Art)





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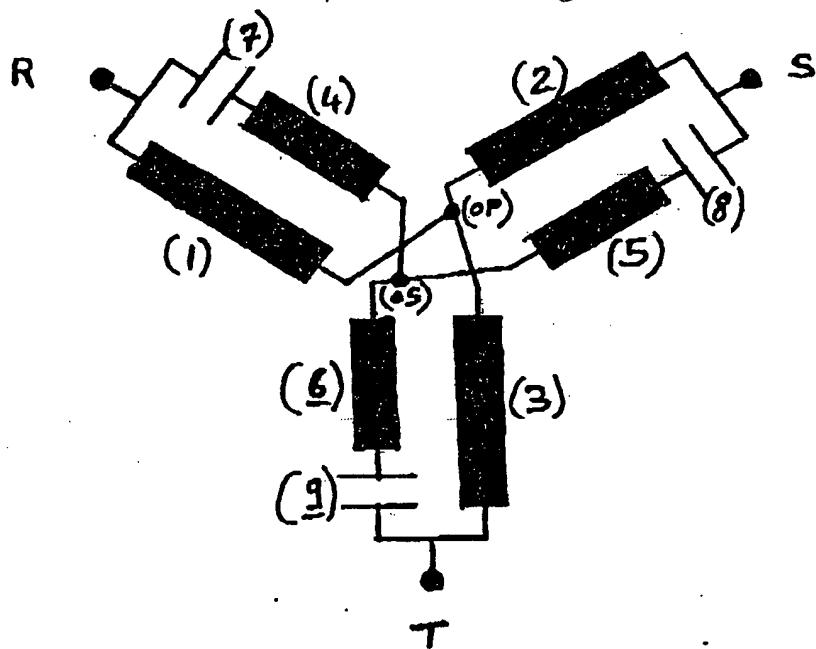
FIGURE 5
(Prior Art)



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FIGURE 6

FIGURE 8 (Prior Art)

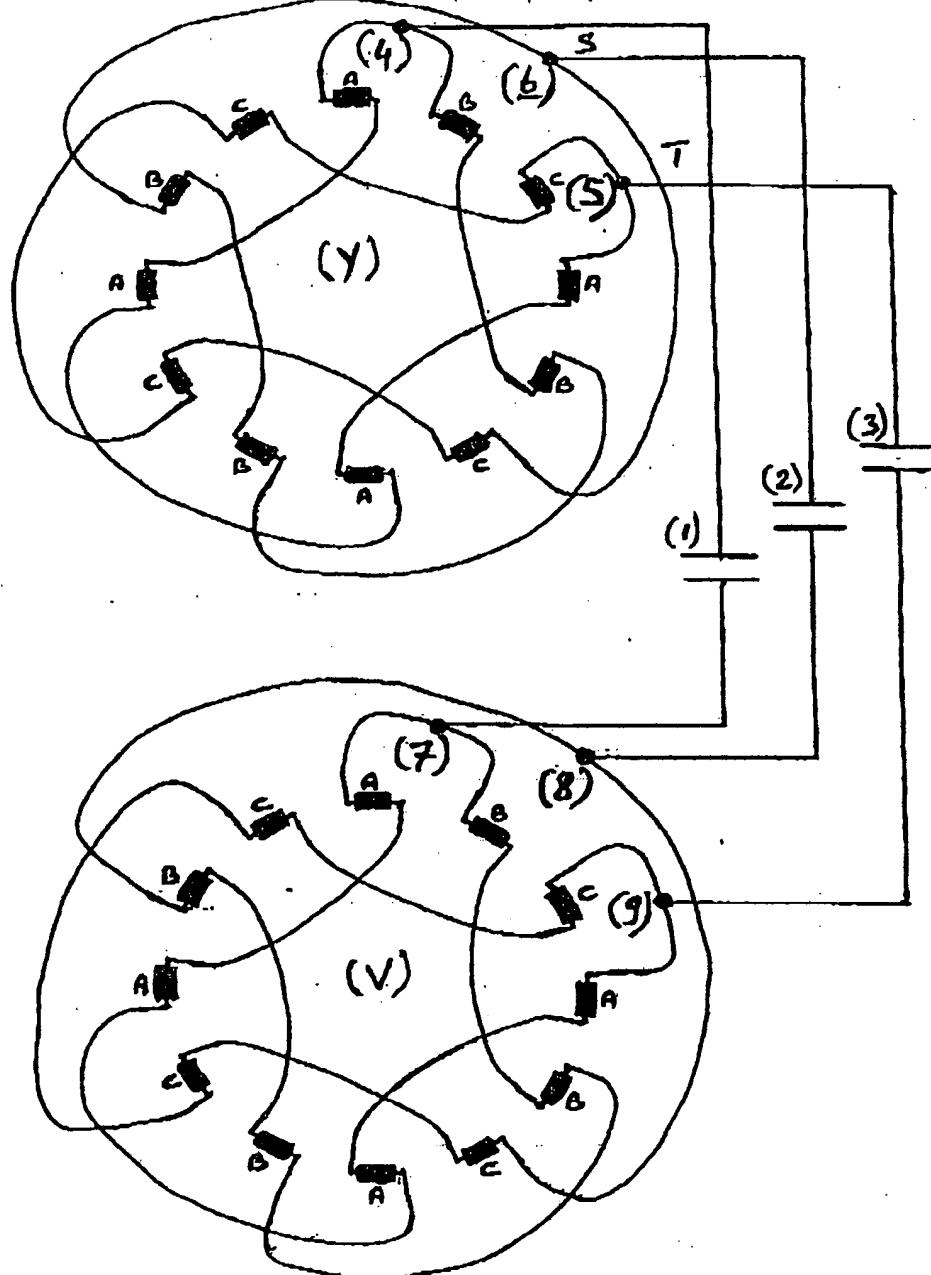


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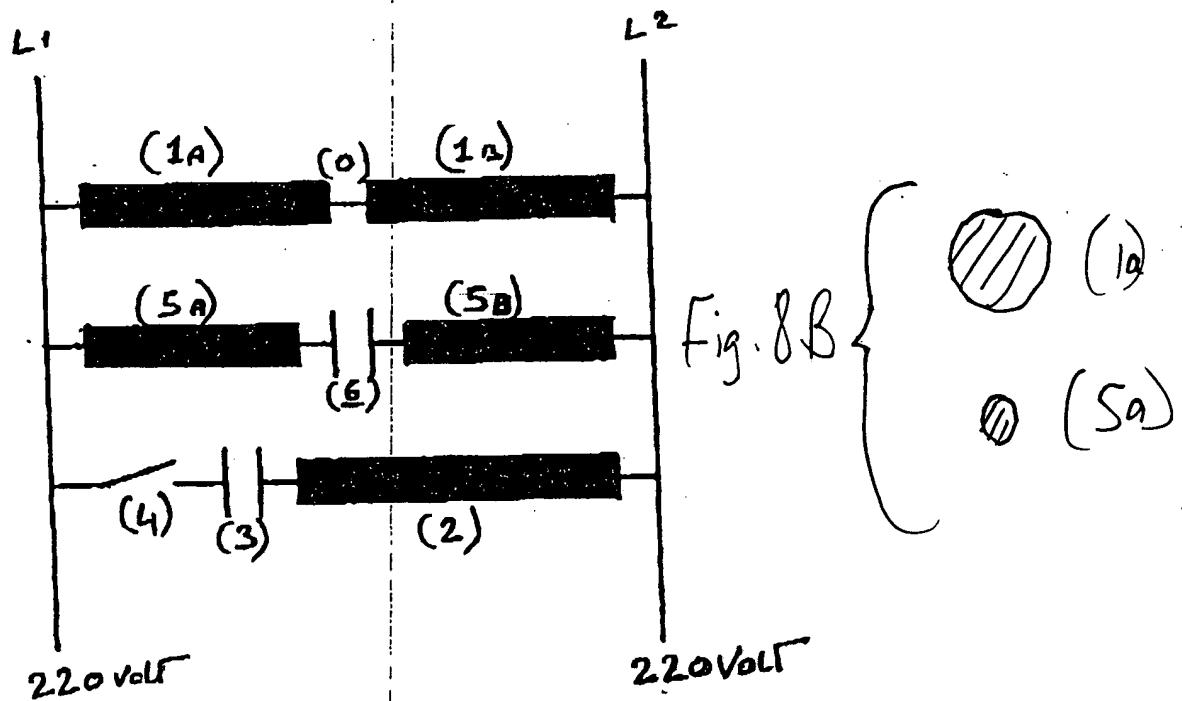
FIGURE 7

FIGURE 7
R (Prior Art)



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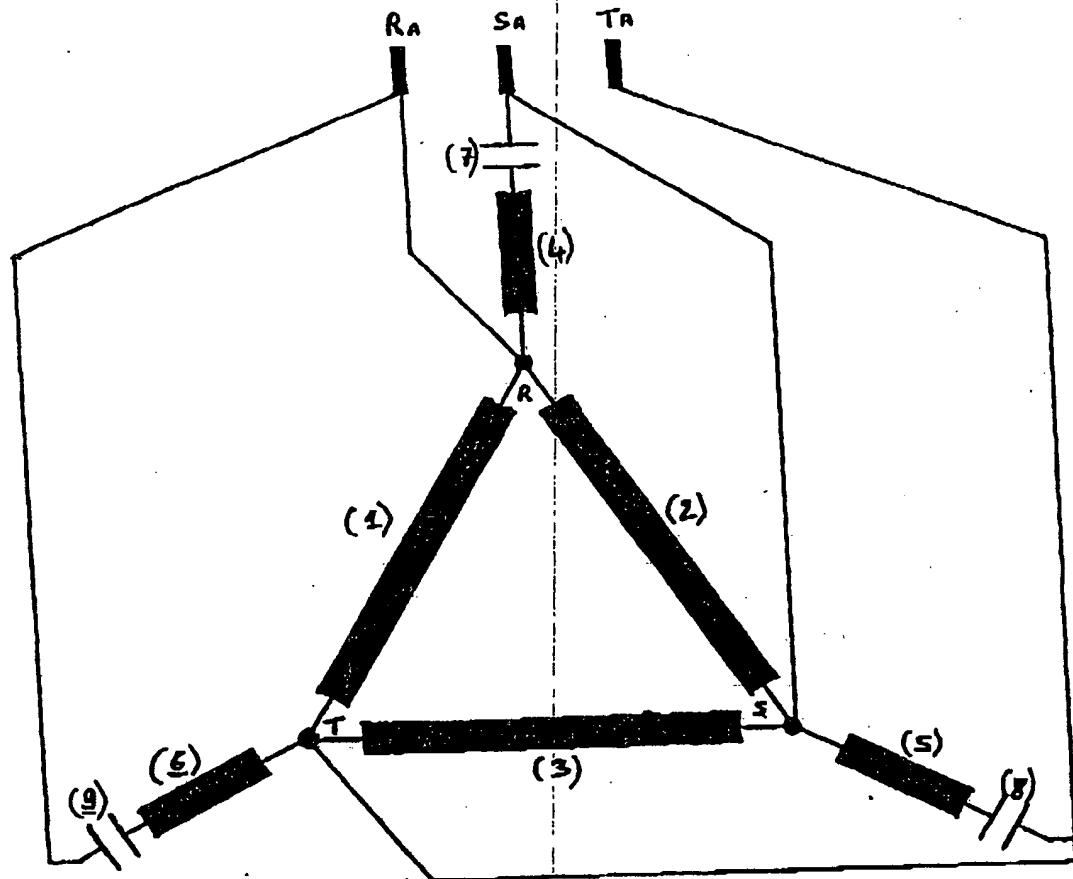
FIGURE 8 A



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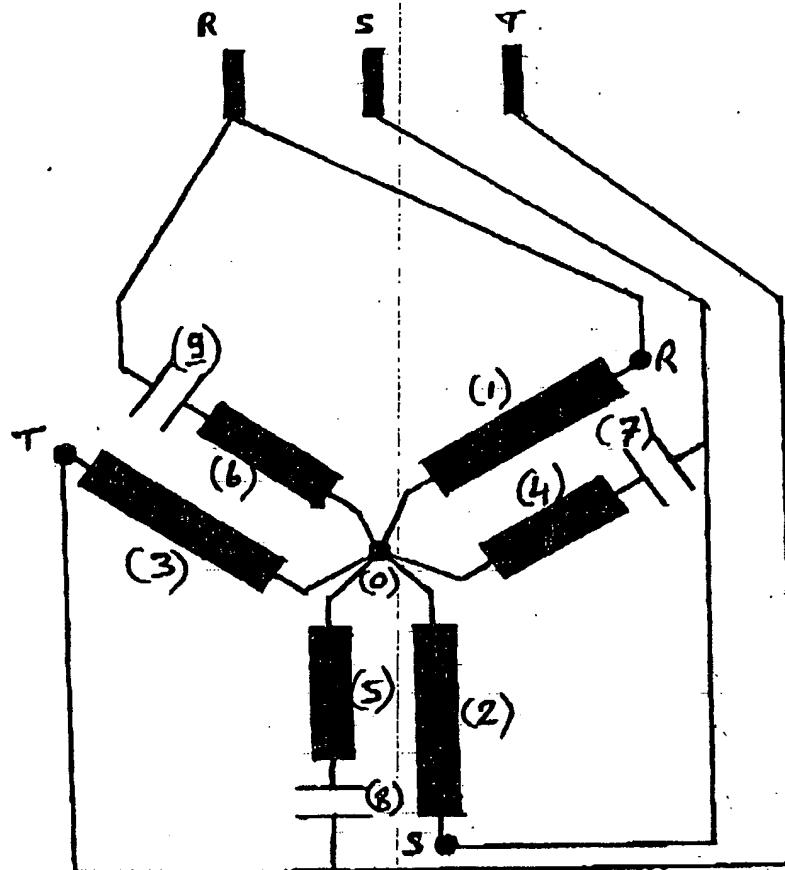
FIGURE 9



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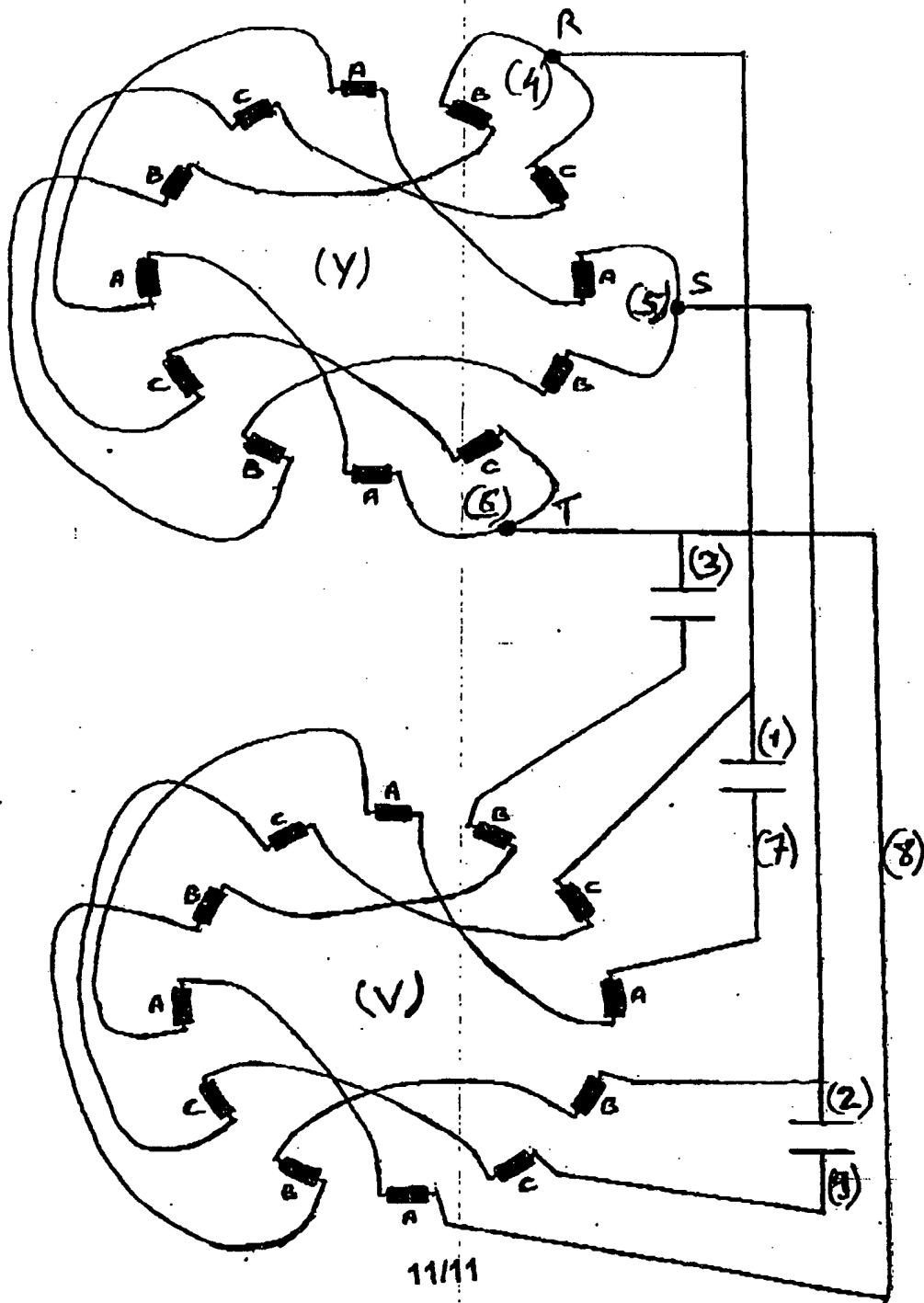
FIGURE 10



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FIGURE 11



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